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From: Richard J. Coldren, Esq. Pages: 15  
Date: December 18, 2002 Client/Matter No.: 013721-074563  
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The dating stamp of the USPTO on this card 07 June 2001  
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Applicant(s) Keeth et al.  
Serial No. 08/801,628  
Filing Date 08 March 2001  
Amount of Check N/A  
Atty's File No. DB000575-010  
ELP/CFO/mk

\*transmittal letter x2  
\*PTO/SB/08A  
\*PTO/SB/08B (2pp)  
\*copies of 33 references

JUN 18 2001



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ELP/CFO/mk	

The dating stamp of the USPTO on this card will be taken as an indication that the accompanying paper(s) was filed.

Applicant(s) Keeth  
 Title 256 MEG Dynamic Access Memory

Pages of Spec. 233 No. of Claim 80  
 Sheets of Drawings 367  
 Declaration X Verified Stmt. \_\_\_\_\_  
 Amt. of Check \$710 and \$1088  
 Atty's File No. DB000575-010

\*PTO/SB/05  
 \*PTO/SB/17 (x2)  
 \*Preliminary Amendment  
 \*Microfiche Appendix  
 \*Statement re  
 Deletion of Inventors  
 \*Change of Address

JC973 U.S. PTO

09/001628



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PTO/SB/05 (11-00)

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**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. DB000575-010

First Inventor Keath

Title 256 MEG Dynamic Access Memory

Express Mail Label No. EJ116538197US

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
2. ☐ Applicant claims small entity status.  
See 37 CFR 1.27.
3. ☒ Specification (Total Pages **233**)  
(preferred arrangement set forth below)
- Descriptive title of the invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) (Total Sheets **367**)
5. Oath or Declaration (Total Pages **1**)
- a. ☐ Newly executed (original or copy)
- b. ☒ Copy from a prior application (37 CFR 1.63 (d))  
(for continuation/divisional with Box 18 completed)
- i. ☒ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. ☐ Application Data Sheet. See 37 CFR 1.76

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Box Patent Application  
Washington, DC 20231

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
- a. ☐ Computer Readable Form (CRF)
- b. Specification Sequence Listing on:
- i. ☐ CD-ROM or CD-R (2 copies); or
- ii. ☐ paper
- c. ☐ Statements verifying identity of above copies

**ACCOMPANYING APPLICATION PARTS**

9. ☐ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement (when there is an assignee) ☐ Power of Attorney
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
13. ☒ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. ☐ Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. ☒ Other: **Microfiche Appendix**

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☒ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)

of prior application No. 08 916,692

Prior application information:

Examiner **Tran**Group Art Unit: **2818**

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**19. CORRESPONDENCE ADDRESS**☐ Customer Number or Bar Code Label

or

☒ Correspondence address below

Name	Edward L. Pencoske				
	Thorp Reed & Armstrong, LLP				
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City	Pittsburgh	State	PA	Zip Code	15219
Country	U.S.A.	Telephone	412/394-7789	Fax	4123942555

Name (Print/Type)	Edward L. Pencoske	Registration No. (Attorney/Agent)	29,688
Signature	<i>E. L. Pencoske</i>	Date	08 March 2001

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

**EXHIBIT**

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Washington, D.C. 20231

  
Attorney for Applicant

Date: 4 June 2001

**PATENT**  
Attorney Docket No. DB000575-010

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

<b>Applicant:</b>	Keeth, et. al.	)	
		)	<b>Examiner:</b> Not Yet Assigned
<b>Serial No.:</b>	09/801,628	)	
		)	<b>Art Unit:</b> 2818
<b>Filed:</b>	March 8, 2001	)	
<b>Entitled:</b>	256 MEG DYNAMIC RANDOM ACCESS MEMORY		

**TRANSMITTAL LETTER FOR RESPONSE TO NOTICE TO FILE  
CORRECTED APPLICATION PAPERS - FILING DATE GRANTED**

Assistant Commissioner for Patents  
ATTN: Box MISSING PARTS  
Washington, D.C. 20231

Dear Sir:

This is in response to the Notice to File Corrected Application Papers - Filing Date <sup>Granted</sup> (hereinafter "the Notice") mailed on April 30, 2001 in the above-captioned application having a shortened two month statutory period of response.

Enclosed herewith are the following:

1. a Petition in Response to the Notice to File Corrected Application Papers having attached thereto:
  - Exhibit A – a copy of the return postcard as evidence that 367 sheets of drawings were filed with the original divisional application; and
  - Exhibit B – a copy of the Utility Patent Application Transmittal form as evidence that 367 sheets of drawings were filed with the original divisional application;
2. one copy each of Figures 40A and 81A that were filed as part of the 367 sheets of drawings;
3. a revised abstract, not exceeding 250 words in accordance with MPEP 608.01(b), in addition to a clean copy of the revised abstract;

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4. a copy of the "Notice to File Corrected Application Papers" (Form PTO-1533); and
5. a check for \$130.00 to cover the petition fee under 37 C.F.R. 1.117(h), which will be refunded if the Petition in Response to the Notice to File Drawings is granted.

The Commissioner is hereby authorized to charge any underpayment or credit any overpayment to our Deposit Account No. 20-0888. A copy of this transmittal letter is enclosed.

A return postcard is also enclosed. Please date stamp and mail the postcard in order to acknowledge receipt of this correspondence.

Respectfully submitted,



Edward L. Pencoske  
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(412) 394-7789

Dated: 4 June, 2001

Attorneys for Applicants

### **ABSTRACT**

A 256 Meg dynamic random access memory is comprised of a plurality of cells organized into individual arrays, [with the arrays being] which are rganized into 32 Meg array blocks, which are organized into 64 Meg quadrants. Sense amplifiers are positioned between adjacent rows in the individual arrays[ while]; row decoders are positioned between adjacent columns in the individual arrays. In certain of the gap cells, multiplexers are provided to transfer signals from I/O lines to data lines. A datapath is provided which, in addition to the foregoing, includes array I/O blocks, responsive to the datalines from each quadrant to output data to a data read mux, data buffers, and data driver pads. The write data path includes a data in buffer and data write muxes for providing data to the array I/O blocks. A power bus is provided which minimizes routing of externally supplied voltages, completely rings each of the array blocks, and provides gridded power distribution within each of the array blocks. A plurality of voltage supplies provide the voltages needed in the array and in [the] peripheral circuits. The power supplies are organized to match their power output to the power demand and to maintain a desired ratio of power production capability and decoupling capacitance. A powerup sequence circuit is provided to control the powerup of the chip. Redundant rows and columns are provided as is the circuitry necessary to logically replace defective rows and columns with operational rows and columns. Circuitry is [also] provided on chip to support various types of test modes.